

CLAIMS

What is claimed is:

1 1. A system for generating electricity from a wind comprising:
2 an enclosure for mounting within or in close proximity to the building, the enclosure
3 having an air intake and an air exhaust;
4 a wind turbine disposed within the enclosure between the air intake and the air
5 exhaust, the wind turbine generating electricity from the wind received from the air intake;
6 and
7 two or more air ducts, each air duct having a first end connected to an air duct intake
8 device for mounting on the building and a second end connected to the enclosure air intake.

1 2. The system as recited in claim 1 wherein the first end of the two or more ducts
2 has a larger cross sectional area than the second end of the two or more ducts.

1 3. The system as recited in claim 1 further comprising an intermediate duct
2 disposed between the enclosure air intake and the second ends of the two or more ducts.

1 4. The system as recited in claim 1 wherein the air duct intake device is a grill
2 mounted on an exterior of the building.

1 5. The system as recited in claim 1 wherein the air duct intake device is an air
2 scoop.

6. The system as recited in claim 5 wherein the air scoop has a directional inlet that changes position in favor of the wind direction.

7. The system as recited in claim 5 wherein the directional inlet is remotely controlled.

8. The system as recited in claim 1 further comprising an air flow focusing device disposed within the enclosure between the enclosure air intake and the wind turbine.

9. The system as recited in claim 1 wherein the enclosure is mounted within an attic of the building.

10. The system as recited in claim 1 wherein the enclosure is mounted within a basement of the building.

11. The system as recited in claim 1 wherein the enclosure is mounted outside the building and the two or more ducts are substantially disposed within the building.

12. The system as recited in claim 1 wherein the wind turbine is mounted on a vibration dampener within the enclosure.

13. The system as recited in claim 1 wherein the enclosure is insulated for sound.

14. The system as recited in claim 1 further comprising a processor for monitoring and controlling the wind turbine.

15. The system as recited in claim 1 further comprising an exhaust duct having a first end connected to the enclosure air exhaust and a second end connected to an air exhaust.

1 16. The system as recited in claim 15 wherein the air duct exhaust device is a grill
2 mounted on an exterior of the building.

1 17. The system as recited in claim 15 wherein the cross sectional area of the
2 exhaust duct is substantially larger than the cross sectional area of the two or more air ducts.

1 18. A building adapted to generate electricity from a wind comprising:
2 an enclosure disposed within or in close proximity to the building, the enclosure
3 having an air intake and an air exhaust;

4 a wind turbine disposed within the enclosure between the air intake and the air
5 exhaust, the wind turbine generating electricity from the wind received from the air intake;
6 and

7 two or more air ducts, each air duct having a first end connected to an air duct intake
8 device mounted on an exterior of the building and a second end connected to the enclosure
9 air intake.

1 19. The building as recited in claim 18 wherein the first end of the two or more
2 ducts has a larger cross sectional area than the second end of the two or more ducts.

1 20. The building as recited in claim 18 further comprising an intermediate duct
2 disposed between the enclosure air intake and the second ends of the two or more ducts.

1 21. The building as recited in claim 18 wherein the air duct intake device is a grill.

1 22. The building as recited in claim 18 wherein the air duct intake device is an air
2 scoop.

1 32. The building as recited in claim 18 wherein the air duct exhaust device is a
2 grill.

1 33. The building as recited in claim 18 wherein the cross sectional area of the
2 exhaust duct is substantially larger than the cross sectional area of the two or more air ducts.

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